# GRANITE HILLS RANGE SITE DESCRIPTION PE 38 - 48

Land Reso	urce Area Centi	ral Basin
Location	Burnet, Johnson Fredericksburg,	
Date	1-17-85	•

 TOPOGRAPHY AND ELEVATION: This site is granite hills and slopes of 8 to 30 percent. Granite rock outcrops occur and comprise 10 to 60 percent of the landscape. Elevations are 1200 to 1900 feet.

#### 2. SOILS:

- a. The soils are permeable, noncalcareous, shallow, gravelly, coarse sandy loam underlain by granite at depths of 11 to 20 inches. Granite outcrops occur. Available waterholding capacity is low resulting in low production. However small rains can be utilized because runoff from rocks is absorbed in the soil. Large rains generally produce runoff.
- b. Some soil taxonomic units which characterize this site are:

Keese-Rock outcrop association, hilly Keese-Rock outcrop complex, 8 to 20 percent slopes

c. Specific site location:

# 3. CLIMAX VEGETATION:

a. The climax plant community is post oak and live oak savannah. The understory is dominated by tall and mid grasses such as little bluestem, sand lovegrass, sideoats grama and green sprangletop. The oak overstory shades about 20 percent of the ground. This site supports an abundance of forbs with some woody shrubs and vines. The north slopes grow a higher percent of little bluestem and oaks than south slopes.

approved : Ffet Senne, SRC, 4-11-85 Janton Elis 426-85 Lister C Brookman, TES-Sil Scientet 4-16-85

## RELATIVE PERCENTAGE

Grasses	85%	Woody	10%	Forbs	5%
Little bluestem	45	Live oak Post oak		Engelmanndaisy Trailing ratany	1
Indiangrass Purpletop Tanglehead	10	Blackjack oak Hickory Elm	10	American snoutbean Mexican sagewort Hairy ruellia	5
Sideoats grama	1 10	Hackberry Greenbriar Yucca		Bush sunflower Sensitive briar Bundleflower	1
Green sprangletop Arizona cottontop Sand dropseed Sand lovegrass Plains lovegrass Plains bristlegrass	10	Elbowbush Bumelia Littleflower peach bush Kidneywood	Т	Bluebonnet Western ragweed Crotons Annual weeds Annual grasses	Т
Wildrye spp. Sedges Texas wintergrass	5	White honeysuckle Catclaw Sumac			
Silver bluestem Hairy grama Hooded windmillgrass Tumble windmillgrass Fall witchgrass Wrights threeawn Fringeleaf paspalum	5				

- b. As retrogression occurs, juniper, Texas persimmon, whitebrush and mesquite may form a dense canopy. Some common invaders on the site are signalgrass, basin sneezeweed, pricklypear, tasajillo, mesquite and certain annuals.
- c. Approximate total annual yield of this site in excellent condition ranges from 1000 pounds in poor years to 2000 pounds air-dry vegetation in good years.
- 4. WILDLIFE NATIVE TO THE SITE: This site is used by deer, dove, quail, and turkey. Several of the woody plants, forbs, and grasses which grow on the site provide good cover, browse, mast, and seeds for game birds and animals.

# GUIDE TO INITIAL STOCKING RATE:

a.	Condition Class	Climax Vegetation	Ac./AU/Yearlong
	Excellent Good Fair	76 - 100 51 - 75 26 - 50	20 - 24 22 - 28 25 - 35
	Poor	0 - 25	35 +

# RELATIVE FORAGE QUALITY OF SPECIES

#### a. Cattle

# Primary

Little bluestem
Indiangrass
Tanglehead
Sideoats grama
Wildrye
Green sprangletop
Sand lovegrass
Climax forbs

# Secondary

Purpletop
Sand dropseed
Plains lovegrass
Plains bristlegrass
Texas wintergrass
Sedges
Silver bluestem
Hairy grama
Hooded windmillgrass
Tumble windmillgrass
Paspalum spp.

## Low Value

Wrights threeawn
Red lovegrass
Annuals
Snake cotton
Oak
Whitebrush
Mesquite
Texas grama
Catclaw
Prickly pear
Tasajillo
Texas persimmon
Juniper

## bir. Sheep

## Primary

Little bluestem
Sideoats grama
Indiangrass
Green sprangletop
Climax forbs
Wildrye
Sand lovegrass
Annual weeds
Annual grasses

# Secondary

Silver bluestem
Hairy grama
Fall witchgrass
Oak
Sumacs
Hackberry
Green briar
Sand dropseed
Arizona cottontop
Windmillgrass
Sedges

# Low Value

Threeawns
Red lovegrass
Texas grama
Whitebrush
Mesquite
Catclaw
Prickly pear
Tasajillo
Texas persimmon
Juniper

#### c. Goats

#### Primary

Oaks
Hackberry
Elms
Kidneywood
White honeysuckle
Sagewort
Ruellia
Snoutbean
Greenbriar
Climax forbs

# Secondary

Indiangrass
Little bluestem
Sideoats grama
Midgrasses
Annual forbs
Annual grasses

# Low Value

Red lovegrass
Threeawn
Texas grama
Red grama
Mesquite
Whitebrush
Prickly pear
Tasajillo
Texas persimmon
Juniper

#### d. Deer

Primary

Bundleflowers Sensitivebriar White honeysuckle Littleflower peachbush Kidneywood Greenbriar Bushsunflower Hackberry Elm Climax forbs Annual forbs

Secondary

Texas wintergrass Sedges Wildrye Low paspalums Fall witchgrass Oak browse Annual grasses · Oak mast Elbow wood Sumac Hickory Bumelia

Low Value

Perennial grasses Mesquite Catclaw Texas persimmon Juniper Prickly pear Tasajillo

Dove and quail

Primary

Bundleflower Crotons Sensitivebriar Panicums and paspalums seed Wildrye (seed) Western ragweed Annual grass and weed seed

Secondary

Oak mast Other grass seed Other woody plant mast

Low Value

Perennial grasses

f. Turkey

Primary

Tender grasses & forbs Coarse grasses Woody plant seed Grass seed Forb seed Oak mast

Secondary

Low Value

Woody plant foliage

Legend and Definitions for Range Site Descriptions

1/ This rating system provides general guidance as to animal preference for plant species. It also indicates possible competition between kinds of animals for the various plants. Grazing preference changes from time to time and place to place depending upon the animals, upon plant palatability and nutritive value, stage of growth and season of use, relative abundance, and associated plants. Grazing preference does not necessarily reflect a plant's ecological place in the climax plant community.

The following definitions apply to cattle, sheep, goats, deer and antelope grazing.

Primary: These species generally decrease when the climax plant community is subjected to continuous heavy grazing pressure by the animals listed.

Secondary: These plants usually increase initially, then decrease when the site is subjected to continuous heavy grazing use by the animals listed.

Low Value: These plants continue to increase or invade with heavy continuous grazing use of the site.

For squirrel, peccary and birds the terms primary, secondary, and low value indicate species preference only. They do not indicate plant response to feeding pressure, nor do they have any ecological significance.